

<p>Nemilov, V. A. and Strunina, T. A. AN INVESTIGATION OF THE SYSTEM: PALLADIUM-SILVER-NICKEL. [1961] 12p. Order from ATS \$19.85 ATS-95N55R</p> <p>Trans. of [Akademiya Nauk SSSR. Sektor Platiny i Drugikh Blagorodnykh Metallov]. [Izvestiya]. 1949, v. 24, p. 15-25.</p> <p>DESCRIPTORS: *Palladium alloys, *Silver alloys, *Nickel alloys, Alloys.</p> <p style="text-align: center;"><i>RS-3339</i></p> <p>(Metallurgy--Nonferrous Metals, TT, v. 7, no. 4)</p>	<p style="text-align: center;">62-12216</p> <p>I. Nemilov, V. A. II. Strunina, T. A. III. ATS-95N55R IV. Associated Technical Services, Inc., East Orange, N. J.</p> <p>Office of Technical Services</p>
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Geometric Isomerism of Complex Compounds and Absorption Spectra of Their Solutions in the UV Regions,
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AEC Tr 2973 52,433

Sci - Physics
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i Drugikh Blagorod Metal, Inst Obshch i Neorg
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Complexes of Platinum with Acetylene Derivatives:
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Vol 2, No 6

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Magnetic Susceptibility of Complex Compounds of
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AEC Tr-4104

AEC Te-4109

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Spectrum Analysis of Small Quantities of Iridium
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Babaeva, V. Y. Belova, and S. A. Borovyk, 2 pp.

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Sci Museum No 51/2951

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L. A. Nazarova, 2 pp.

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Sci Museum No 51/2950

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NRCC - TT- 861

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No 9, 1958, pp 44-50.

JPRS 7465

Sci - Phys
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Activities of Some Destructive Hydrogenation
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AT&T-23L37R

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Vol IV, No 8

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D. A. DROGATSEV.

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SSSR, NO 11, 1958, PP 83-94.

NLL M. 3833

SCI - GEOPHYS

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(NY-2836).

Prospects for the Chemical Industry in Eastern
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JPRS-L-936-N

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Second General Conference of the Siberian
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FID-TT-63-257

Sci-M/u
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Stashkov, N. V. and Zelyanskii, A. I.
THE POLAROGRAPHIC DETERMINATION OF GERMANIUM. [1962] 14p. 14 refs.
Order from OTS or SLA \$1.60 62-16145

Trans. of Akad[emiya] Nauk SSSR. Sibirsk[oc]
Otdel[enie]. Izv[estiya] 1959, no. 1, p. 59-66.

DESCRIPTORS: *Polarographic analysis, *Germanium,
Mercury electrodes. Sodium compounds, Acetates,
Borax.

The investigation of various inert electrolytes showed
that tetravalent germanium is reduced from many
solutions at the mercury-drop electrode, with forma-
tion of clearly shaped waves. The addition to the solu-
tions of trilon B improves the form of the germanium
wave. The applicability of the polarographic method of
determination of germanium in a base of sodium acetate
and borax to the analysis of practical samples is
shown. (Author)

62-16145

I. Stashkov, N. V.
II. Zelyanskii, A. I.

(Chemistry--Analytical. TT.
v. 8, no. 7)

Office of Technical Services

<p>M. M. Stepanov, Yu. G. and Plaksin, N. ON THE SELECTION OF A RATIONAL METHOD FOR DRESSING TITANIUM-ZIRCONIUM ALLUVIAL DEPOSITS OF WESTERN SIBERIA. [1960] 17p Warren Spring Laboratory Trans. NT748: M1720. Order from LC or SLA mi\$2.40, phb 30 61-13055 Trans. of Akademika Nauk SSSR. Sibir[skoye] Otdeleniye. Izv[estiya] 1959, no. 3, p. 18-29.</p> <p>The alluvial ores of Western Siberian deposits contain leucoxene, ilmenite, rutile and zircon. The overall content of titanium dioxide in the sample was 3.4% and zirconium dioxide 1.2%. In grain characteristics the sand is exceptionally fine, slightly kaolinised material, in which the valuable minerals are distributed extremely unevenly. Almost all the zircon is concentrated in the 0.074 - 0.30 mm size fraction, while the titanium minerals are found in the size range 0.3 - 0.030 mm. Preliminary dressing may be by either flotation or gravity. Finishing operations may be carried out (over)</p>	<p>61-13056</p> <ol style="list-style-type: none"> 1. Ores--Processing 2. Titanium--Siberia 3. Zirconium--Siberia 4. Melik-Stepanov, Yu. G. 5. Plaksin, N. 6. DSIR NT-748 7. DSIR LLU M. 1720 8. Department of Scientific and Industrial Research (Gr. Brit.) <p><i>148,697</i></p>
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<p>Mikhailov, M. A. and Vedernikova, T. I. THE THERMAL HYDROLYSIS OF CALCIUM FLUORIDE AND FLUORITE UNDER DYNAMIC CONDITIONS WITH THE ADDITION OF SILICON DIOXIDE. [1961] 14p. Order from ATS \$19.85 ATS-69NS4R</p> <p>Trans. of Akad[emija] Nauk SSSR. Sibir[skoe] Otdel[enie]. Izvestiya 1959, no. 3, p. 49-61.</p> <p>DESCRIPTORS: Hydrolysis, *Calcium compounds, Fluorides, *Fluorapat, *Silicon compounds, Dioxides</p> <p>(Chemistry--Physical, TT, v. 6, no. 11)</p>	<p>61-25623</p> <p>I. Mikhailov, M. A. II. Vedernikova, T. I. III. ATS-69NS4R IV. Associated Technical Services, Inc., East Orange, N. J.</p> <p>188.67</p> <p>Office of Technical Services</p>
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JPRS 2651

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Obtaining Titanium Dioxide From the Product of Reduction in Sodium Sulfate Smelting of Ilmenite Concentrates, by A. K. Sharova, A. A. Fotiyev, 22 pp.

RUSSIAN, per, Iz Sibirskego Otdel Ak Nauk SSSR,
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JPRS-2037-N

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JPRS SF-1273

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<p>Volkova, N. M. and Gaydukov, G. V. SOME DATA CONCERNING THERMODYNAMIC PROPERTIES OF POTASSIUM FLUOTITANATE. [1951] [10p]. Order from OTS or SLA \$1.10</p> <p>Trans. of Akad[emiya] Nauk SSSR, Sibirskoe Otdel[enie]. Izvestiya 1959, no. 6, p. 70-77.</p> <p>DESCRIPTORS: *Titanates, *Fluorides, *Potassium compounds, Thermochemistry, Reagents, Metallurgy</p> <p>The relationship between the heat content of potassium fluotitanate and the temperature ranging from 298- 1098°K was determined in experiments. The equations es- tablished for the relationship between the true molar heat capacities and the temperature were based on the change in heat content and calculated according to the method by Landiya. Equations expressing the relation- (Chemistry--Physical, TT, v. 6, no. 10) (over)</p>	<p>61-27805</p> <p>I. Volkova, N. M. II. Gaydukov, G. V. III. Translations, New York</p> <p>7372</p> <p>Office of Technical Services</p>
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JPRS-2267

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(NY-3539).

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No 7, Novosibirsk, 1959, pp 126, 127.

JPRS-2296

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Mar 60

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Device for Investigating Axially Symmetric
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Vazhenin.

RUSSIAN, per, Investiya Sibirskego Otdeleniya
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SIR-3201

9048182

Sci. + Electronics

May 60

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Current Status of the Problem Concerning the Use
of Substances for Individual Protection Against
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JPRS 5115

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Aug 60

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(NY-3900)

Soviet-Chinese Scientific Investigations of the
Amur Basin, by N. N. Nekrasov, V. A. Shelest,
14 pp.

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No 10, 1959, pp 5-14..

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Sci - Misc

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ED-5-60

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G. V. Krylov, Yu. P. Khlonov, 6 pp.

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No 11, 1959, pp 105-107.

JPRS 3319

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Jun 60

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General Meeting of the Siberian Department Academy
of Sciences USSR, by A. K. Chernenko.

RUSSIAN, Per, Iz Ak Nauk SSSR, Sibirskoye Otdel,
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JPRS 3320

Sci-Misc
May 63

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by A. K. Dynin, 26 pp.

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No 12, 1959, pp 11-24.

Amer Meteorol Soc X-R-291

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Sci - Geophys
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the Academy of Sciences USSR, 25 pp.

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JPRS 2880

Sci - Misc

Jul 60

Vol 2, No 11, 1960
FTD-RT-63-259
(9669775) 120,041

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and Determination of Rational Clearances Between
the Supporting Faces of the Teeth in Multiple-
Support Root Fastenings of Moving Turbine Blades,
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No 1, 1960, pp 41-55.

ELL M. 3583

Sci - engr

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Jul 62

Heats of Formation of Niobium Oxides and
Carbides, by F. G. Kiseenko, P. V. Gal'd, 8 pp.

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No 2, 1960, pp 46-52.

AEC 9r-4362

Sci - Phys
May 61

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<p>Bardamova, M. I. COMPLEX FORMATION BETWEEN ORGANIC HALOGEN COMPOUNDS AND OXYGEN-CONTAINING ORGANIC SUBSTANCES. [1963] 5p. Order from ATS \$8.00 ATS-79Q66R</p> <p><u>Trans. of Akademiya Nauk SSSR. Sibirsk[oe]</u> <u>Ord[elenie]. Izvestiya</u> 1960, no. 2, p. 71-75.</p> <p>DESCRIPTORS: *Organic halides, *Oxygen, *Organic compounds, Halogens, Chemical reactions, Complex compounds.</p> <p>(Chemistry--Organic, TT, v. 9, no. 9)</p>	<p>63-12824</p> <p>I . Bardamova, M. I. II . ATS-79Q66R III . Associated Technical Services, Inc., East Orange, N. J.</p> <p>ATS RJ-4025</p> <p>Office of Technical Services</p>
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The Effect of the Quantity of Aluminum Chloride on the Ratio of the Velocity Constants in the Formation of Isopropyl-Benzenes, by E. P. Babin.

RUSSIAN, per, Akademiya Nauk SSSR,
Sibirskoe Otdelenie. Izvestiya, No 3,
1960, pp 50-57.
NTC 72-10838-07C

Apr 72

(SF-1257/a)

News of the Siberian Department of the Academy of Sciences USSR, by A. K. Chernenko, K. Ye. Mironov
6 pp.

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk SSSR,
No 3, 1960, pp 129-132.

JPRS 4271

Sci - Misc

Jan 61

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(DC-4380)

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RUSSIAN, per, Iz Sib Otdel Ak Nauk SSSR, No 3,
1960, pp 129-131.

JPRS 6229

Sci - Misc

Nov 60

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BD 41/60

(SF-1259).

In the Joint Scientific Council on Chemical Sciences,
by K. Ye. Mironov,

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk SSSR,
No 3, 1960, pp 131-132.

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Sci - Chemistry

21 Nov 60

18

(SF-1018)

Biological Research in Siberia, by N. G.
Kolomiyets, 7 pp.

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1960, pp 132-135.

JPRS 4008

Sci - Bio

Sep 60

125, 358

(DC-4782)

The Problem of Industrialization of the Angaro-Pitalkiy Iron Ore Basin, by A. I. Zubkov, 10 pp.
RUSSIAN, per, Iz Sibirskego Otdel Ak Nauk SSSR,
No 5, 1960, pp 13-19.

JPRS 6377

135, 845

USA
Econ
Dec 60

(NY-6355/1)

Contemporary Progress and the Distribution
of the Productive Forces of Siberia and the
Far East -- The Embodiment of Leninist
Ideas, by N. N. Nekrasov, 23 pp.

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JPRS 9892

FE - China
Econ
Sep 61

Mechanism of the Solvation of Ions, by V. A.
Mikhailov, S. I. Drakin, 10 pp.

MRUSSIAN, per, Iz Ak Nauk SSSR, Sibirskoye
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ATS-50P64R
ATS-RJ-3715

Sci

Apr 63

Mechanism of the Solvation of Ions, by V. A.
Mikhailov, S. I. Drakin, 10 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Sibirskoje
Otdelenie, No 6, 1960, pp 44-52.

AT&T RDP64R

326 862

Sci

Apr 63

(NY-03-5/2)

Rapid Method for the Determination of Antimony
in the Presence of Arsenic, by G. N. Pavlinova,
11 pp.

RUSSIAN, per, Iz Sibirsksogo Otdel Ak Nauk SSSR,
No 6, 1960, pp 53-58.

JPRS 9661

Sci - Chem
Aug 61

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(NY-6355/3)

The Distribution of the Rare-Earth Elements
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With Ammonium Thiocyanate, by V. K. Val'tsev,
Ye. D. Oziachvili, 10 pp.

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JPRS 10041 167, 787

Sci - Chem
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Book Review: Topics of Scientific Research Works
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Sciences, by V. D. Kudryatsev, 8 pp.

RUSSIAN, per, Izvest Sibirskogo Otdel Ak Nauk
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JPRS 10060

171, 117

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(SF-1593)

Vladimir Nikoleyevich Sukachov, by S. A. Il'yinskaya,
V. N. Smagin, 6 pp.

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No 6, 1960, pp 128-131.

JPRS 4500

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Biog.

Apr 61

147,143

Mixed Thallium Chalcogenides. III., by
S. S. Batsanov, I. Kh. Petrova, 4 pp.

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk
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9092623

075-61-12891 171, 279

Sci

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BD 8/61

(SF 1801).

New Additions to the Membership of the Siberian
Department of the Academy of Sciences USSR,

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1960, pp 153-154.

*JPRS

Sci - Misc

21 Apr 61

The Behavior of Sodium Sulfite in the Reduction
Process of Sodium Sulfate by Coal, by A. A.

Potliyev, 6 pp.

RUSSIAN, per, Investiya Sibirskogo Otdeleniya
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P011180467

AEC AL Tr-230

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Sci - Materials
June 67

Plankton in the Irkustek Water Reservoir During
Its First Year of Operation, by G. L.
Vasil'yeva, et al.

RUSSIAN, per, Iz Ak Nauk SSSR, Sibergokoye
Otdel, Vol X, 1960, pp 103-111.

CSIRO

Sci - Geophys
Jul 62

207, 450

Mechanism of Oxidation by Ultrasound, by
M. S. Levinson, B. G. Kovrov, 6 pp.

RSSIAM, per, Is Sibirskogo Otdel Ak Nauk SSSR,
No 12, pp 67-88, 1960.

ARS Journal
Vol 32, No 5

Sci - Phys

Jun 62

198, 622

(SF-1688)

Activities of the Siberian Branch of the USSR Academy
of Sciences, by A. K. Chernenko, 5 pp.

RUSSIAN, per, Iz Sibirskogo Otdel Akademii Nauk SSSR,
Sc 12, 1960, pp 135-137.

JPRS 4547

Sci - Misc.

May 61

152, 659

ED 12/61

(DC- 5909).

Discussion of Ecological Problems in the Biological Institute of the Siberian Department, AS USSR, by G. M. Krivoshchekov,

RUSSIAN, per, Iz Sibirskogo Otdel AN SSSR, XXX No 12, 1960, p 137.

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Sci - Bio!

27 Apr 61

wear resistance of iron and steel improved by
Electrolytic Sulfurizing, by S. S. Chernyak,
et al.

RUSSIAN, per, Iz Sibirskogo Otdel Ak Nauk HSSR,
No 1, 1961, pp 25-30.

HB 5153

Sci

Aug 61

163,183

Stashkova, N. V. and Zelyanskaya, A. I.
ON THE REDUCTION MECHANISM OF TETRAVA-
LENT GERMANIUM AT THE MERCURY DROP
ELECTRODE. [1962] 19p. 10 refs.
Order from OTS or SLA \$1.50

62-18620

Trans. of A[kademiya] N[auk] SSSR. Sibir[skoe]
Otdel[enie]. [Izvestiya] 1961, no. 1, p. 72-81.

DESCRIPTORS: *Germanium, Reduction, Electrodes,
Mercury, Electrochemistry.

By the method of polarographic coulometry it is
established that the reduction of tetravalent germanium
at the mercury drop electrode takes place with the par-
ticipation of four electrons. Anode-cathode waves of
germanium were obtained with the amalgam drop elec-
trode and the dependence of the reduced exchange cur-
rent and reversible half-wave potential on germanium
(Chemistry--Physical, TT, v. 9, no. 8) (over)

62-18620

I. Stashkova, N. V.
II. Zelyanskaya, A. I.

Office of Technical Services

bd-35/61

(SP-1913)

Symposium on Certain Problems of Mathematics
and Mechanics, by A. K. Chernousko,

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No 1, 1961, pp 123-124.

#JPRS 4929

Sci - Math

11 Jul 61

(SF-1913/a)

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DESCRIPTORS: *Gases, *Ions, *Refraction, *Electrons,
Polarization, *Perturbation theory, Special functions

The assumption was expressed that the screening con-
stants for the 3d- and 4d-electron shells calculated by
the Slater rules are overestimated by the value of the
outer screening. Using this assumption, the ionic re-
fractions of all elements of the "b" subgroups calculated
by a method of the perturbation theory were in good
agreement with the experiment. For the first time
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DESCRIPTORS: *Towers (Chemistry), Heat transfer;
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